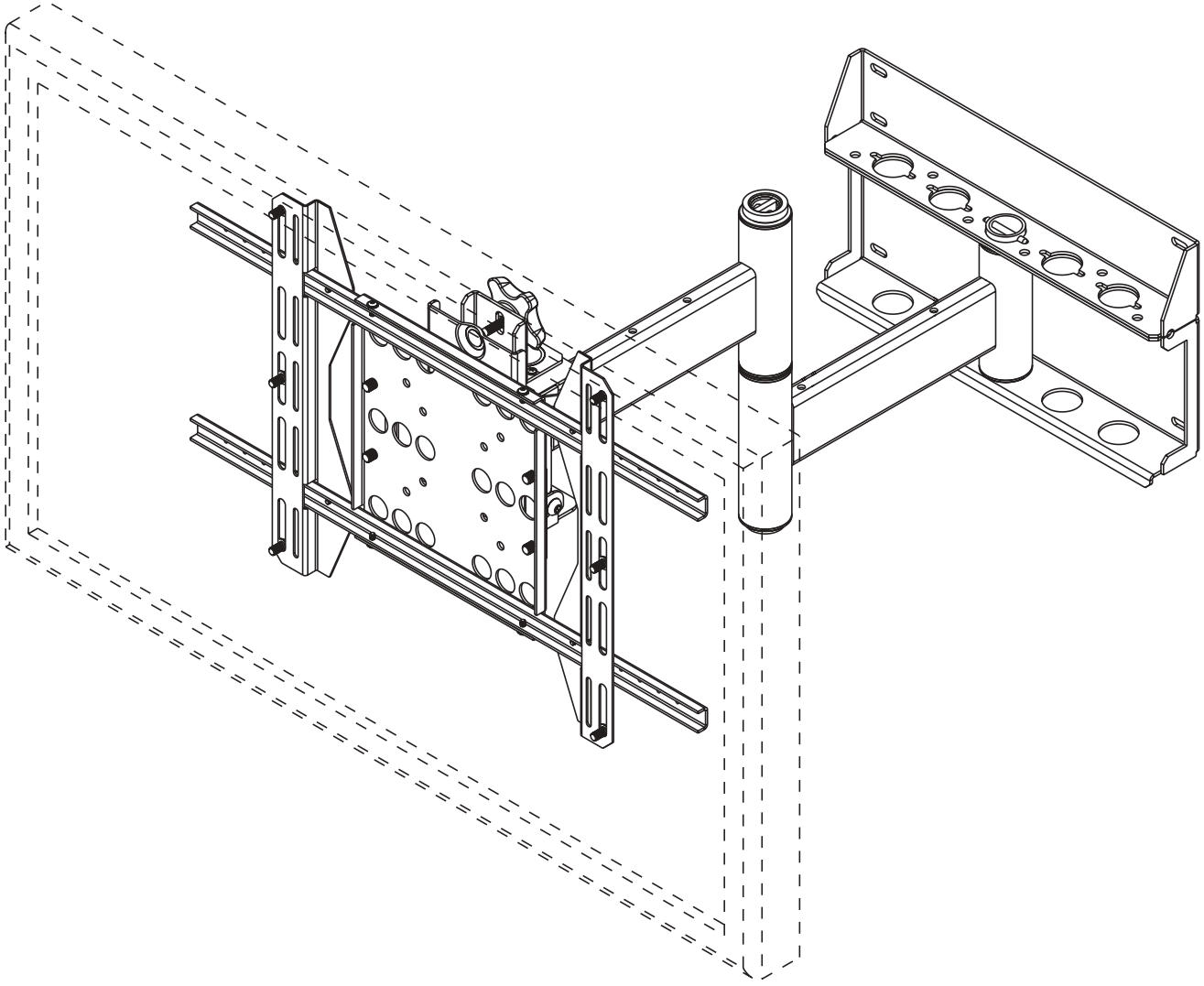
peerless®

Solid Solutions - Solid Support™

Installation and Assembly:
Articulating Swivel Arm for 32" - 60" Large Flat Panel Screens

Model: PLA1-UN7, PLA1-UN7S



This product is UL Listed. It must be installed by a qualified professional installer.

Max Load Capacity: 150 lb (68 kg)

3215 W. North Ave. • Melrose Park, IL 60160 • (800) 729-0307 or (708) 865-8870 • Fax: (708) 865-2941 • www.peerlessmounts.com

ISSUED: 09-21-04 SHEET #: 201-9269-6 11-29-05

Note: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, please call Peerless customer service at 1-800-729-0307.
- This product should only be installed by a qualified professional.
- Do not attach directly to a metal stud wall. Use of a triple stud WSP wall plate is required for attachment to metal studs (contact customer care). Metal stud installation is not UL evaluated.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum UL Load Capacity of 150 lb (68 kg).
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.

Tools Needed for Assembly

- Phillips screwdriver
- 5/32" or 4 mm drill bit (for installation to wood stud wall)
- 1/4" or 6 mm drill bit (for installation to concrete wall)
- 10 mm wrench
- Hammer
- Tape
- 3/4" open end wrench (optional: for roll adjustment)
- 6 mm allen wrench (included)
- stud finder ("edge to edge" stud finder is recommended)

Table of Contents

Parts List 3, 4

Installation to Double Wood Stud Wall 5

Installation to Solid Concrete or Cinder Block 6

Installing Swing Arm to Wall Bracket and Assembling Components to Arm 7

Assembling Adapter Bracket 8-10

Installing Adapter Bracket to Screen 11

Installing Pitch Roll Assembly to Adapter Bracket 12

Optional: Placing Screen in Vertical Position 12

Installing Screen to Articulating Swivel Mount 13

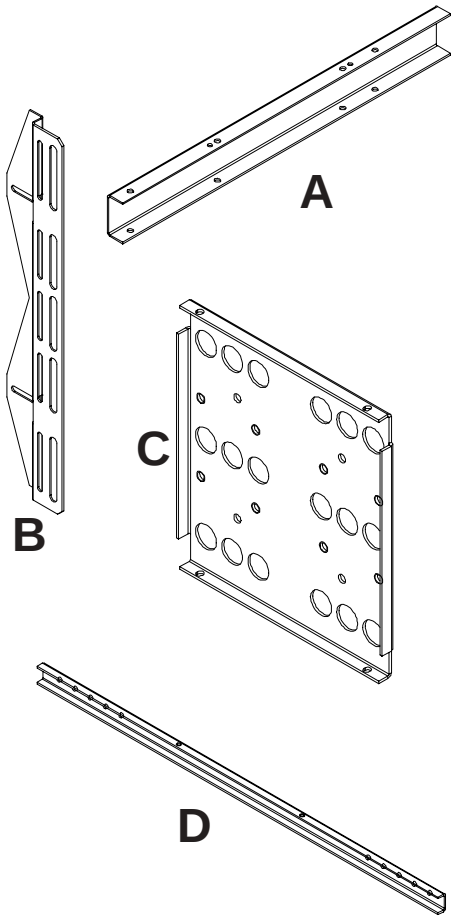
Final Adjustment to Screen 14

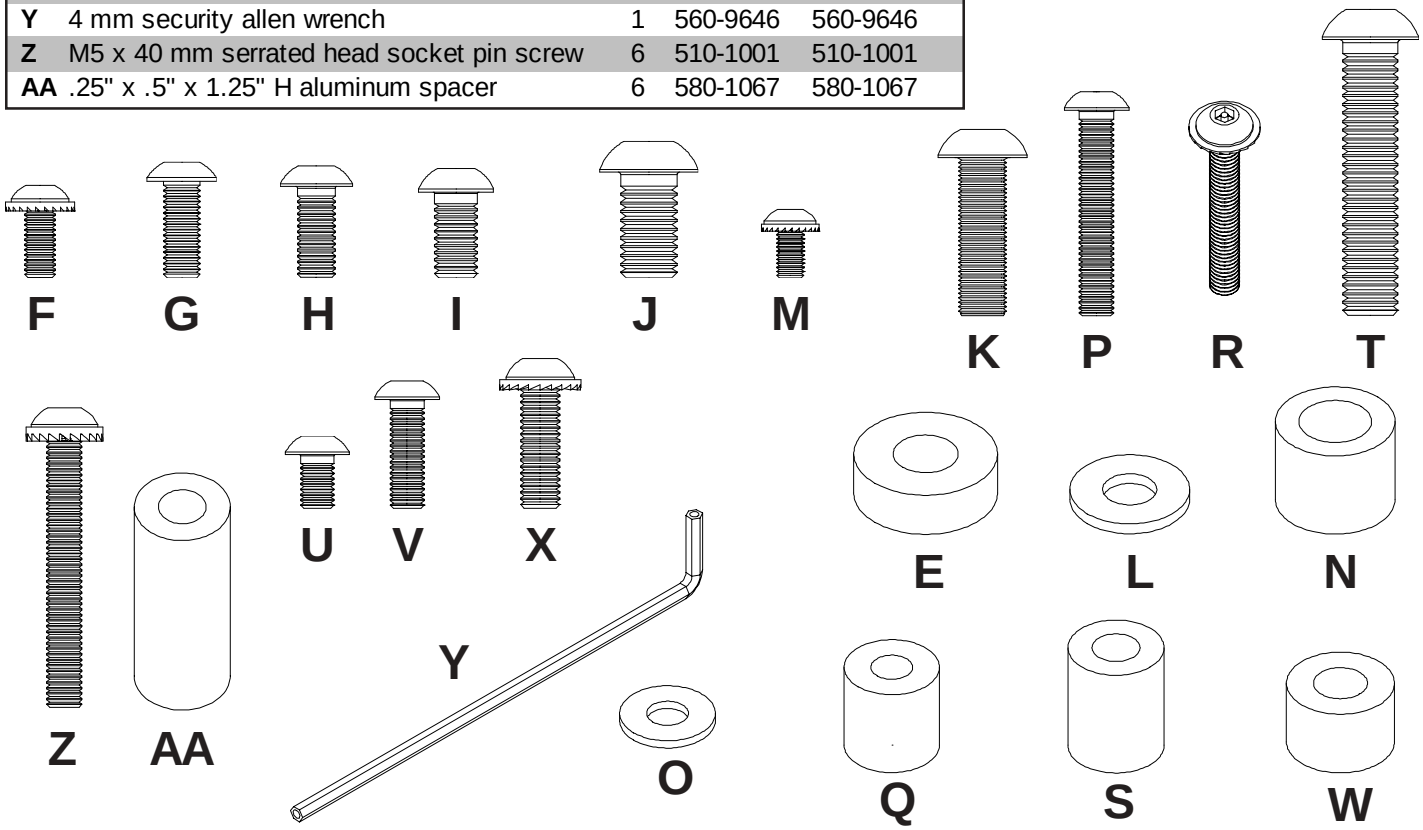
For customer care call (800) 729-0307 or (708) 865-8870.

Before you begin, make sure all parts shown are included with your product.

Parts List

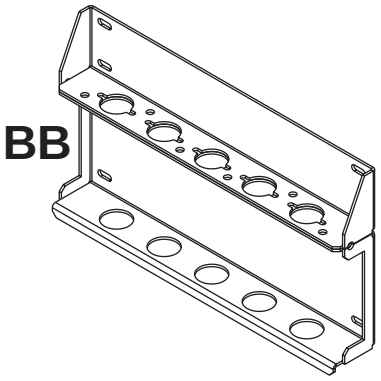
	Description	Qty	PLA1-UN7 Part #	PLA1-UN7S Part #
A	c-channel spacer	2	200-1388	200-4388
B	vertical bracket	2	200-1446	200-4446
C	adapter plate	1	200-1300	200-4300
D	c-channel	2	200-1331	200-4331
E	.34" x .75" x .25" spacer	4	540-1002	540-1002
F	M4 x 10 mm serrated head socket pin screw	8	520-1156	520-1156
G	10-32 x 1/2" socket pin screw	4	520-1055	520-1055
H	M5 x 12 mm socket pin screw	8	520-1064	520-1064
I	M6 x 12 mm socket pin screw	8	520-1050	520-1050
J	M8 x 15 mm socket pin screw	6	520-1068	520-1068
K	M8 x 25 mm socket pin screw	4	520-1101	520-1101
L	1/4" SAE washer	8	540-9440	540-9440
M	10-32 x 3/8" serrated head socket pin screw	4	520-1151	520-1151
N	.38" x .625" x .5" spacer	6	540-1015	540-1015
O	#10 SAE washer	8	540-9400	540-9400
P	M5 x 30 mm socket pin screw	4	520-1112	520-1112
Q	.219" x .5" x .5" nylon spacer	4	590-1096	590-1096
R	M4 x 30 mm serrated head socket pin screw	4	510-1090	510-1090
S	.25" x .5" x .625" nylon spacer	4	590-1106	590-1106
T	M8 x 40 mm socket pin screw	6	520-1152	520-1152
U	M5 x 8 mm socket pin screw	4	520-1062	520-1062
V	M5 x 16 mm socket pin screw	8	520-1161	520-1161
W	.281" x .5" x .375" spacer	4	540-9416	540-9416
X	M6 x 20 mm serrated head socket pin screw	4	510-9554	510-9554
Y	4 mm security allen wrench	1	560-9646	560-9646
Z	M5 x 40 mm serrated head socket pin screw	6	510-1001	510-1001
AA	.25" x .5" x 1.25" H aluminum spacer	6	580-1067	580-1067

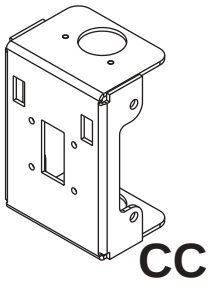


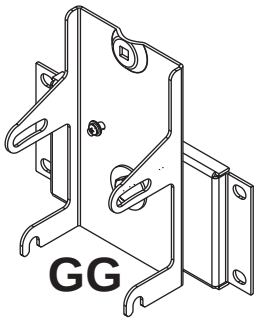


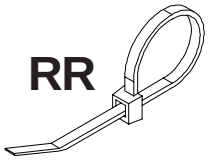
Parts List

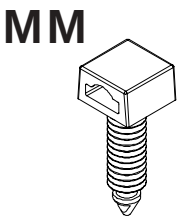
	Description	Qty.	PLA1-UN7 Part #	PLA1-UN7S Part #
BB	wall bracket	1	200-1472	200-4472
CC	rotation box	1	200-1434	200-4434
DD	wall support arm axle	1	200-1052	200-1052
EE	tilt pivot retainer assembly	1	200-1877	200-4877
FF	swing arm assembly	1	200-0878	200-0879
GG	pitch roll assembly	1	200-0288	200-0277
HH	#14 phillips wood screw	8	5S1-015-C03	5S1-015-C03
II	carriage bolt 3/8"-16 x 3"	1	520-1001	520-1001
JJ	M10 x 1.5 x 15 mm screw bolt	8	520-9262	520-9262
KK	10-32 x 1/2" phillips screw	2	520-9509	520-9509
LL	knob	1	590-1087	590-1087
MM	cable clips	4	590-1166	590-1166
NN	snap ring	1	560-9641	560-9641
OO	holding pin	1	5M9-025-X02	5M9-025-X02
PP	3/4" x 3/16" x 14" bumper strip	1	570-1030	570-1030
QQ	3/4" x 3/16" x 10" bumper strip	2	570-1029	570-1029
RR	cable ties	4	560-9711	560-9711

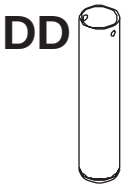


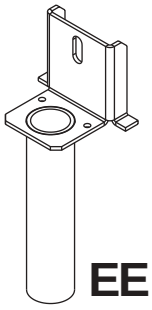


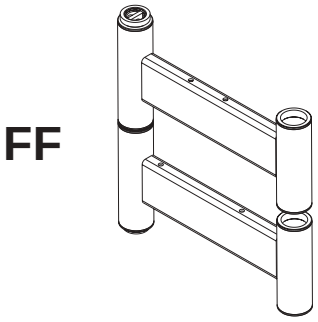


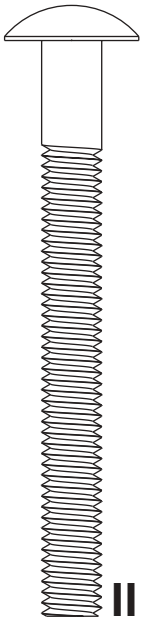


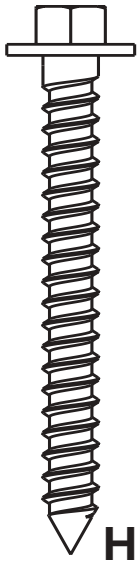


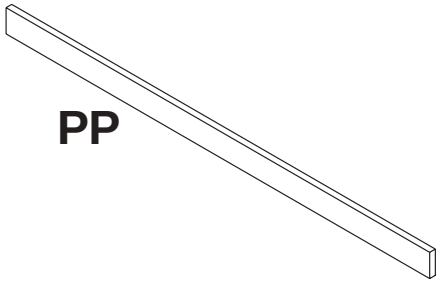


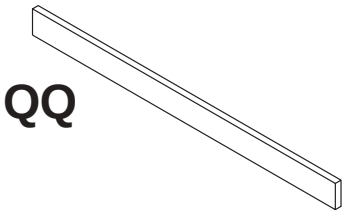


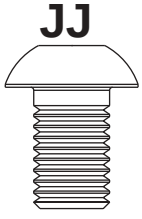


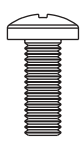


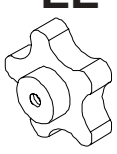


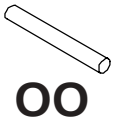






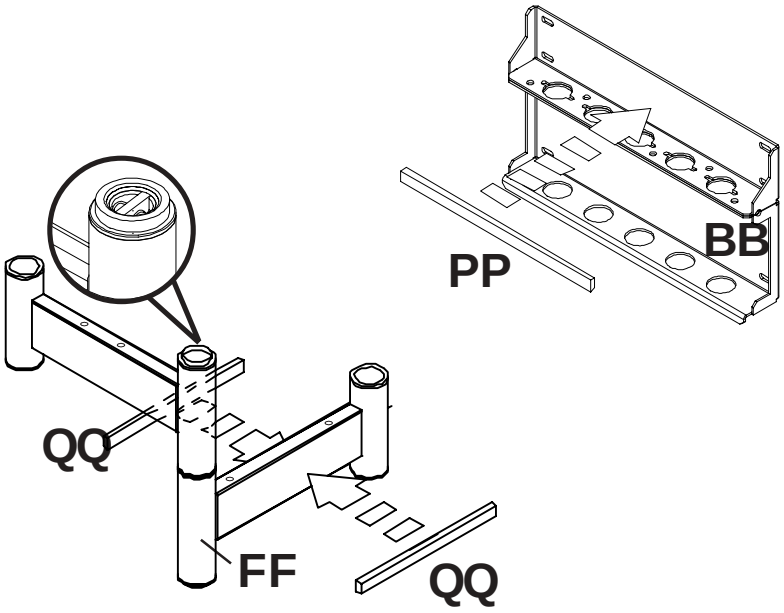






1 Attach adhesive bumper strip (**PP**) to wall bracket (**BB**). Next attach one adhesive bumper strip (**QQ**) to each side of swing arm (**FF**).

Note: Be sure swing arm is in correct position as shown with plastic cap at top.



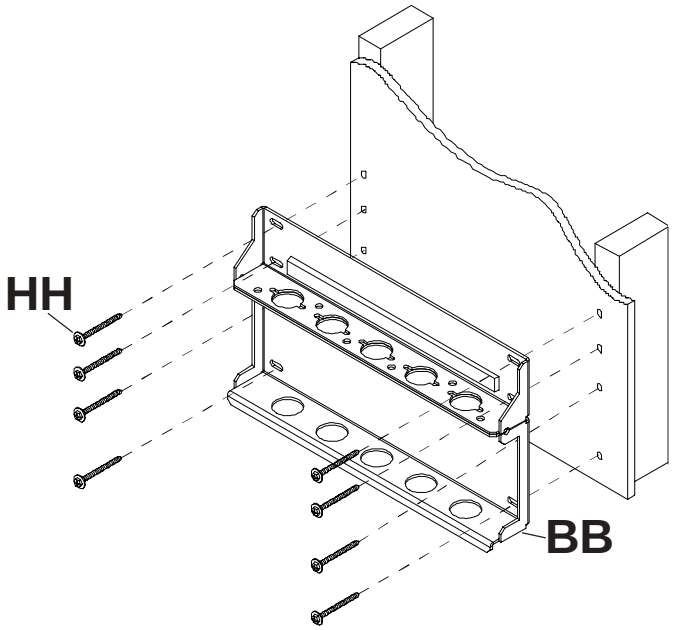
⚠ WARNING

- Never mount this product to metal studs without the required accessory.

Installation to Double Wood Stud Wall

2 Using wall bracket (**BB**) as a template, drill eight 5/32" (4 mm) diameter holes to a minimum depth of 2-1/2" (64 mm) into **stud centers**. Attach wall bracket using #14 phillips wood screws (**HH**) and phillips screwdriver (not provided).

Skip to step 3, page 7.



⚠ WARNING

- Tighten wood screws so that wall bracket is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the studs. The use of an "edge to edge" stud finder is highly recommended.

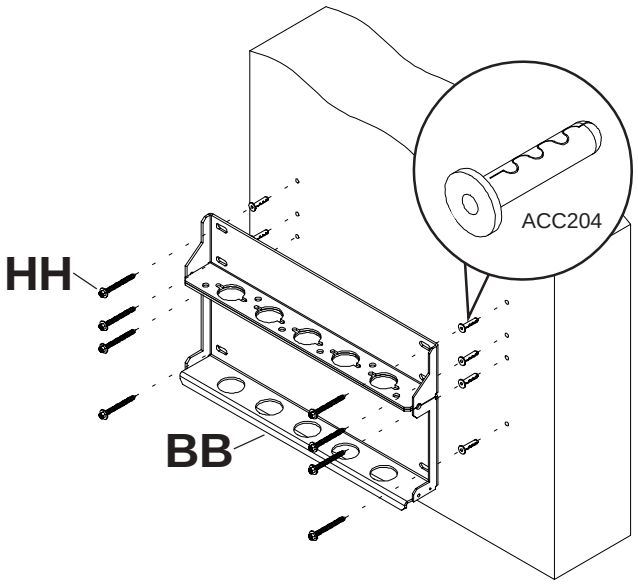
Installation to Solid Concrete or Cinder Block

Note: Fasteners for concrete not included, order TWO #ACC 204 accessory kits.

⚠ WARNING

- When installing Peerless wall mounts on cinder block, verify that you have a minimum of 1-3/8" of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.
- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

2 Use wall bracket (**BB**), making sure that it is level, as a template to mark holes. Drill 1/4" (6 mm) diameter holes to a minimum depth of 2.5" (64 mm). Insert anchors in holes flush with wall as shown (right). Place wall bracket over anchors and secure with #14 x 2.5" (6 mm x 65 mm) wood screws (**HH**). Tighten all fasteners.

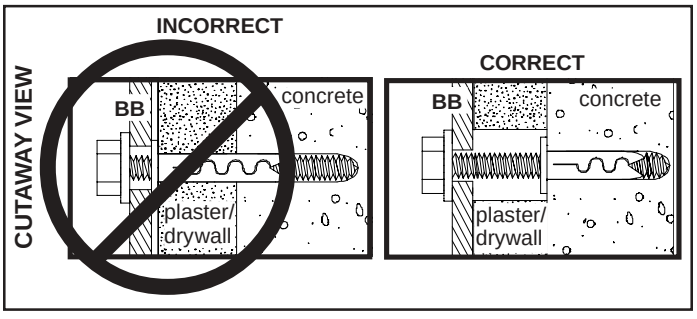


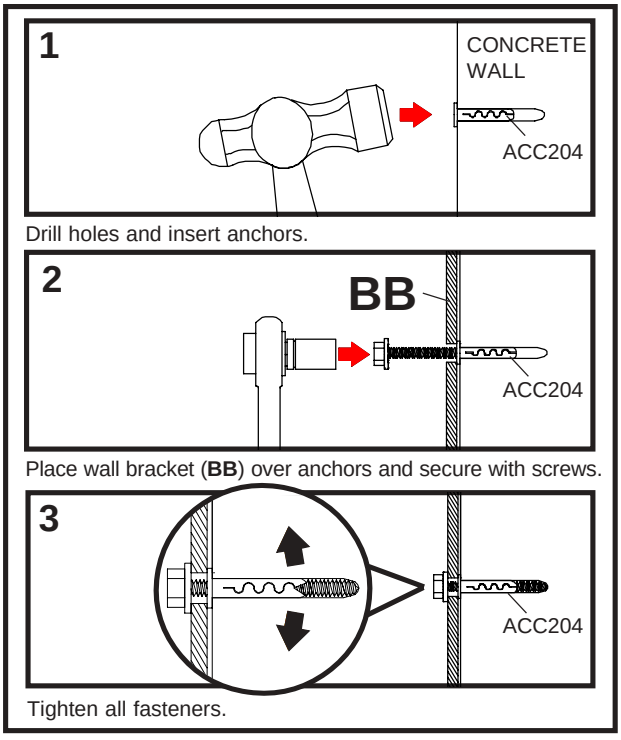
⚠ WARNING

- Tighten screws so that wall bracket is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the studs. The use of an "edge to edge" stud finder is highly recommended.

⚠ WARNING

- Always attach concrete expansion anchors directly to load-bearing concrete.
- Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material.





ISSUED: 09-21-04 SHEET #: 201-9269-6 11-29-05

Installing Swing Arm to Wall Bracket and Assembling Components to Arm

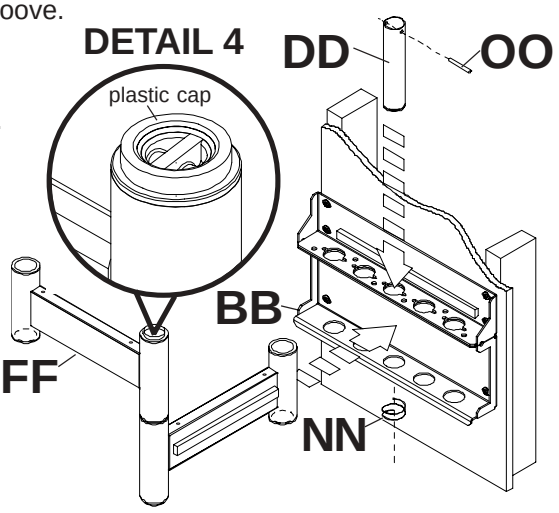
⚠ WARNING

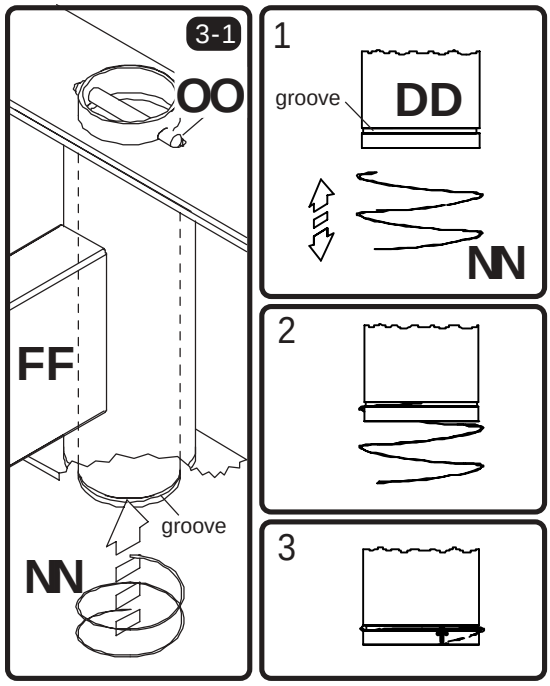
- Failure to correctly mount swing arm with plastic cap at top as shown in detail 4 will result in product failure.
- Improperly installed snap ring will result in product failure.
- If you are uncertain that product is properly installed, call customer service.

3 **Note:** There are five mounting positions. The center position is shown below.
Insert holding pin (**OO**) into wall support arm axle (**DD**). Insert axle through wall bracket (**BB**) and lower swing arm (**FF**). Lock axle in place with holding pin.

3-1 Next thread snap ring (**NN**) into groove at bottom of axle (**DD**) protruding wall bracket (**BB**) as shown.
SNAP RING INSTALLATION: Pull snap ring apart. Wind it around the tube while feeding it into the groove. Finish by snapping the end of the snap ring into groove.

Note: Fit of axle into wall bracket and lower swing arm will be tight. Gently tap into place with a hammer if necessary.

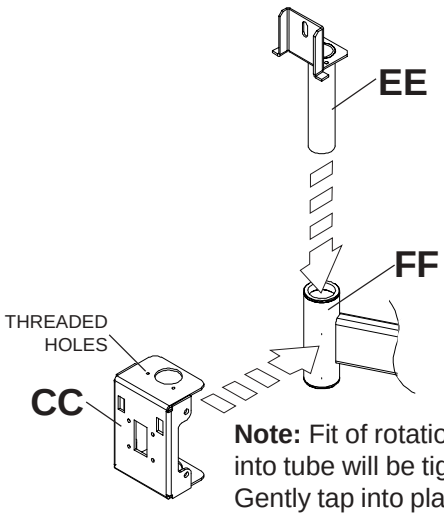




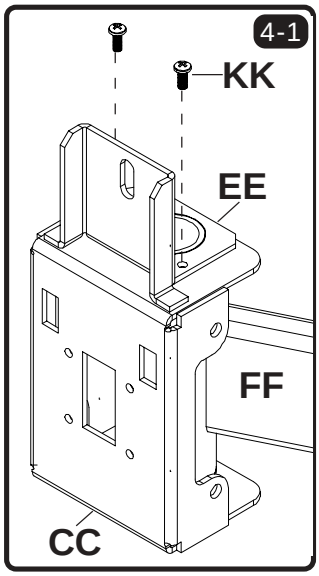
4 Place rotation box (**CC**) with threaded holes up over swing arm (**FF**).

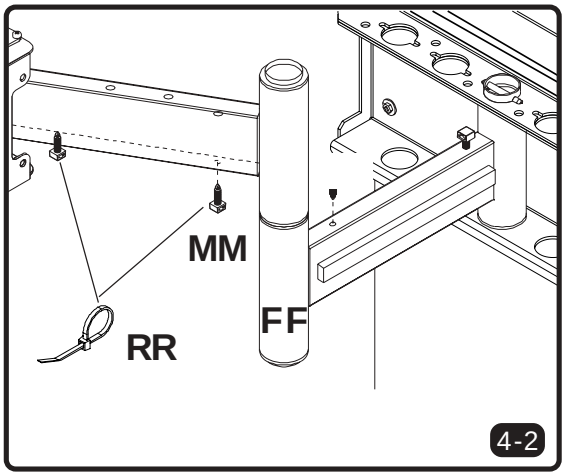
4-1 Insert tilt pivot retainer assembly (**EE**) through rotation box (**CC**) and swing arm (**FF**). Align holes in tilt pivot retainer assembly with holes in rotation box and secure with two phillips screws (**KK**) as shown.

4-2 Snap four cable management clips (**MM**) into swing arms (**FF**) as shown. Cable ties (**RR**) are used with clips (**MM**) for cord management.



Note: Fit of rotation box into tube will be tight. Gently tap into place with a hammer if necessary.





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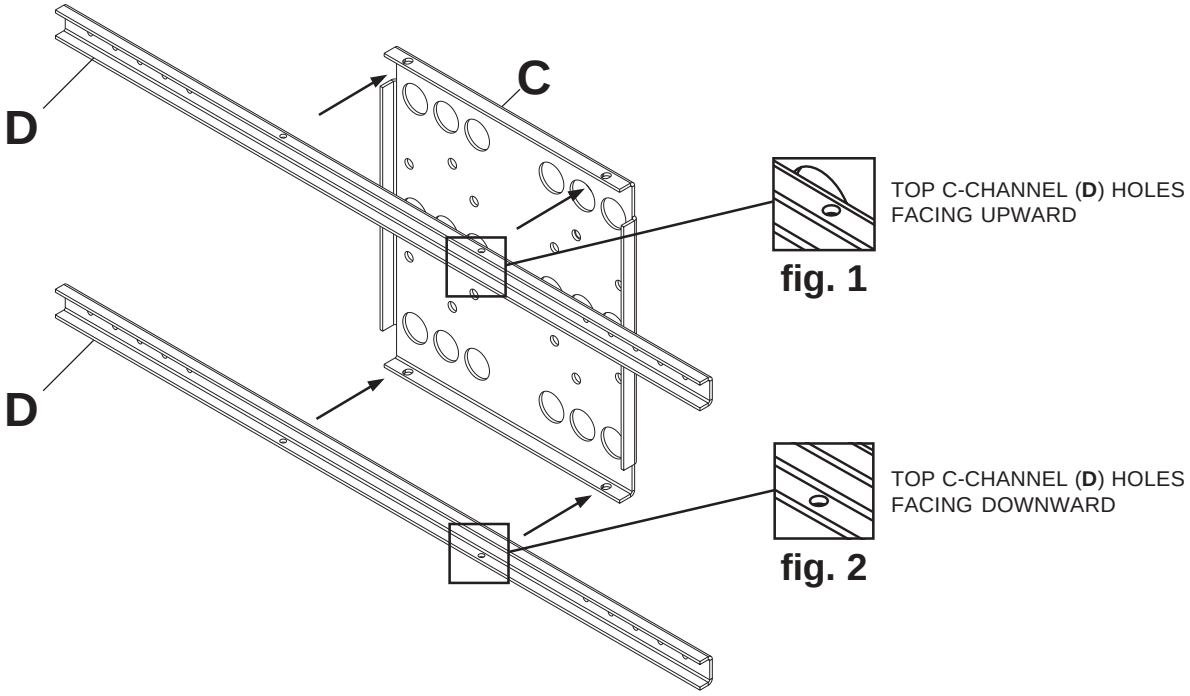
Use the tables on accompanying screen compatibility chart to assemble the adapter bracket. First, find your screen brand and model in the tables on accompanying screen compatibility chart. Find the configuration letter which corresponds to your screen. This letter will be used to determine the proper method of assembly for the adapter bracket. Continue to the table on the last page of accompanying screen compatibility chart.

Example: *For a Sony model KDL-42XBR950 42" screen, use configuration C.*

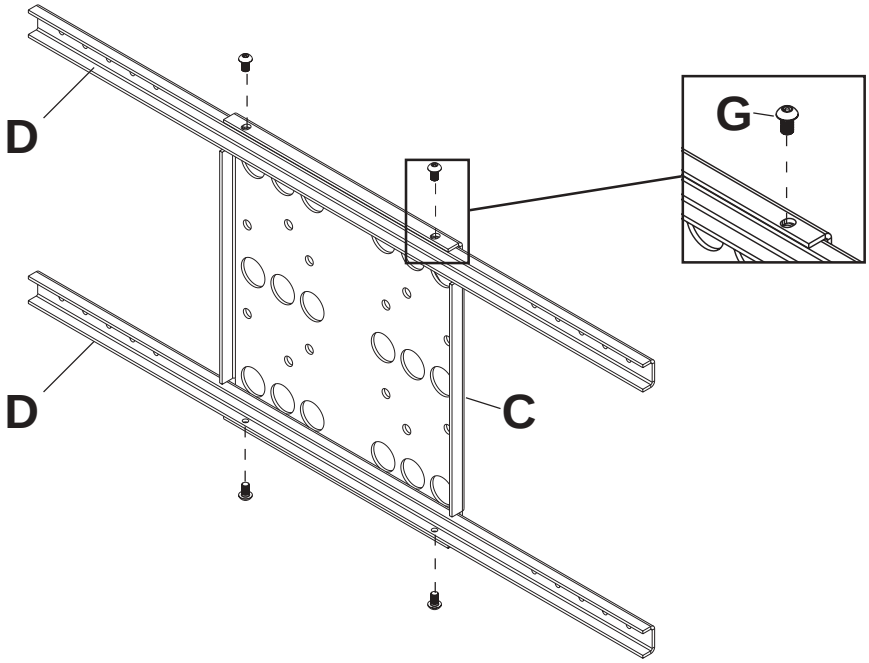
Assembling Adapter Bracket

5 Attach c-channels (**D**) to adapter plate (**C**).

Note: Make sure that the holes in the c-channels are facing the proper direction. See figures 1 and 2.



Fasten c-channels (**D**) to adapter plate (**C**) using four 10-32 x 1/2" socket pin screws (**G**).



ISSUED: 09-21-04 SHEET #: 201-9269-6 11-29-05

6 Slide vertical brackets (**B**) onto c-channels (**D**) as shown below. Refer to the table on accompanying screen compatibility chart to determine the proper assembly of the adapter bracket. For standard bracket mounting, see figure 3. For reverse bracket mounting, see figure 4.

Example: *For a Sony model KDL-42XBR950 42" screen, assemble the bracket as shown in figure 4 below (reverse bracket mounting).*

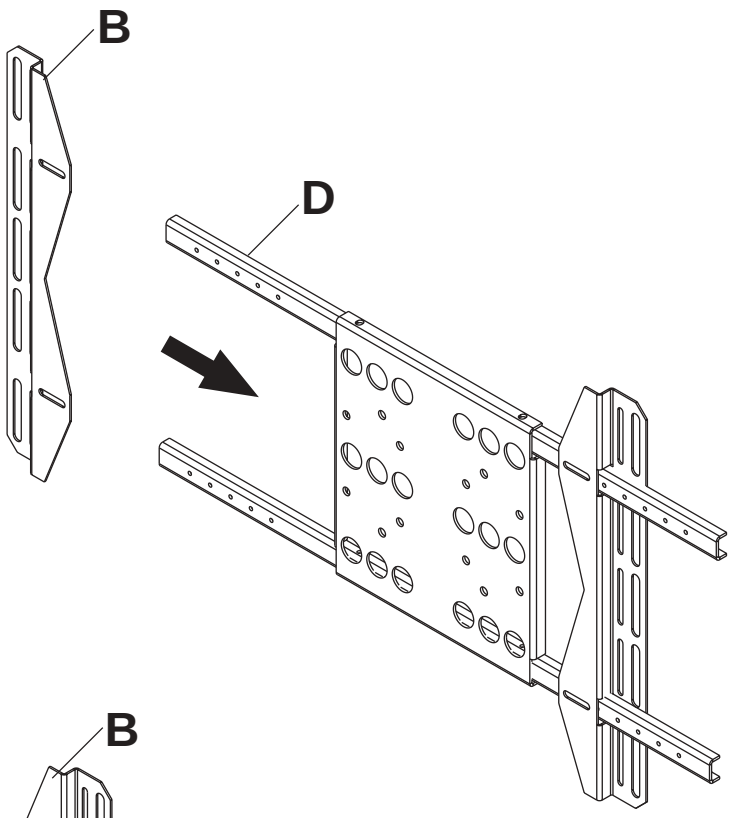


fig. 3
Bracket Mounting: Standard

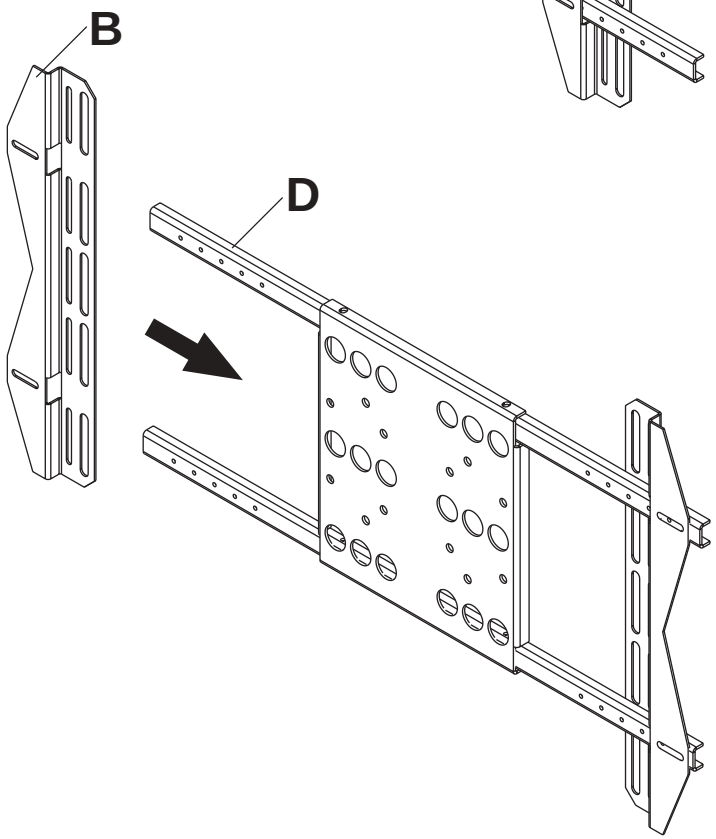
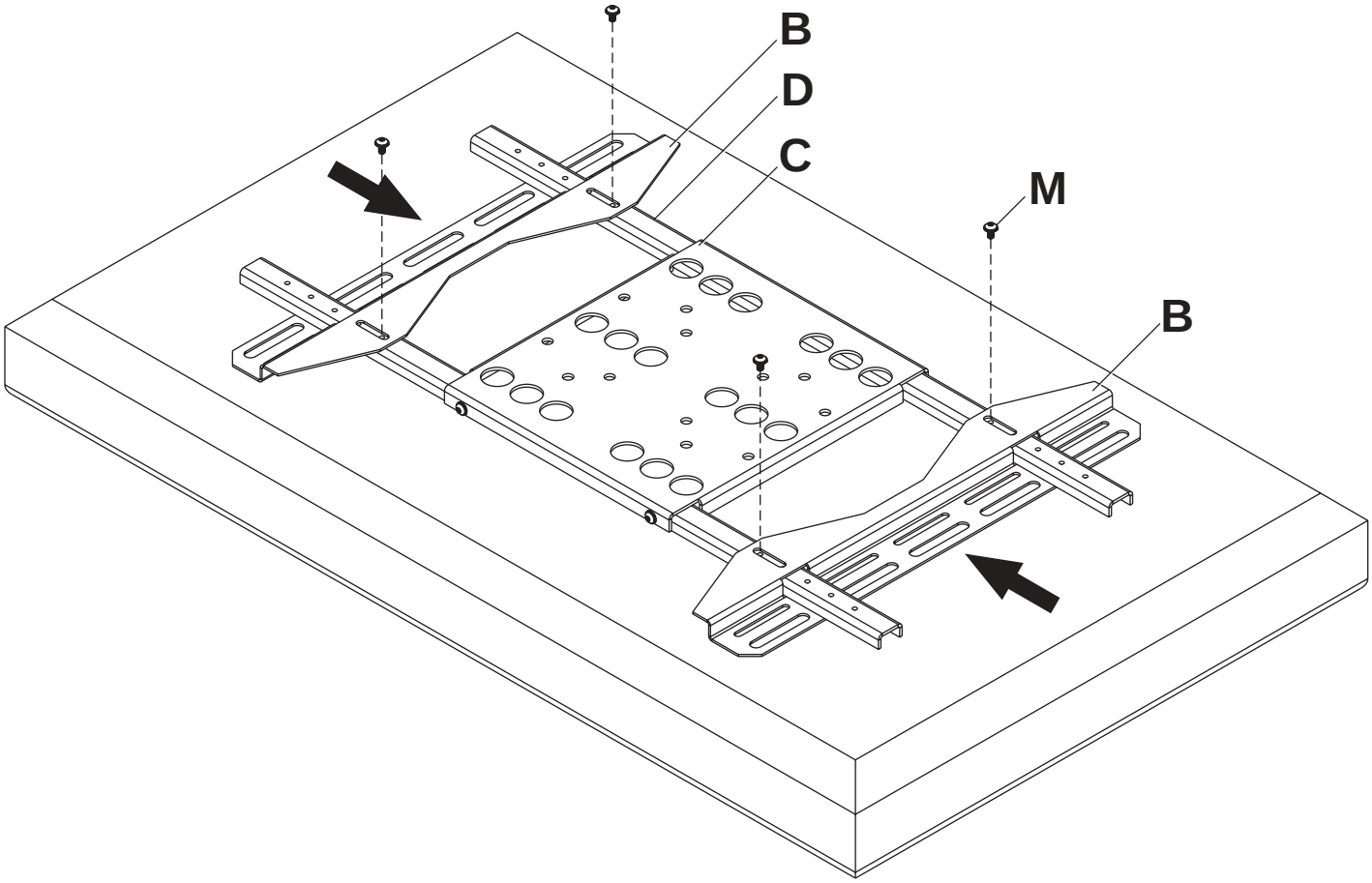


fig. 4
Bracket Mounting: Reverse

7 Place the screen on the floor face down. Set a cloth on the floor to prevent scratching the screen. If the screen has knobs on the back, remove them. Place adapter bracket on the center of the screen. Slide the vertical brackets (**B**) along the c-channels (**D**) of the adapter bracket until the slots on the back of the vertical brackets are aligned to the holes on the back of the screen. Fasten vertical brackets to c-channels using four 10-32 x 3/8" serrated head socket pin screws (**M**).

Note: Do not fully tighten the screws to allow the adapter bracket to slide along the vertical brackets freely.

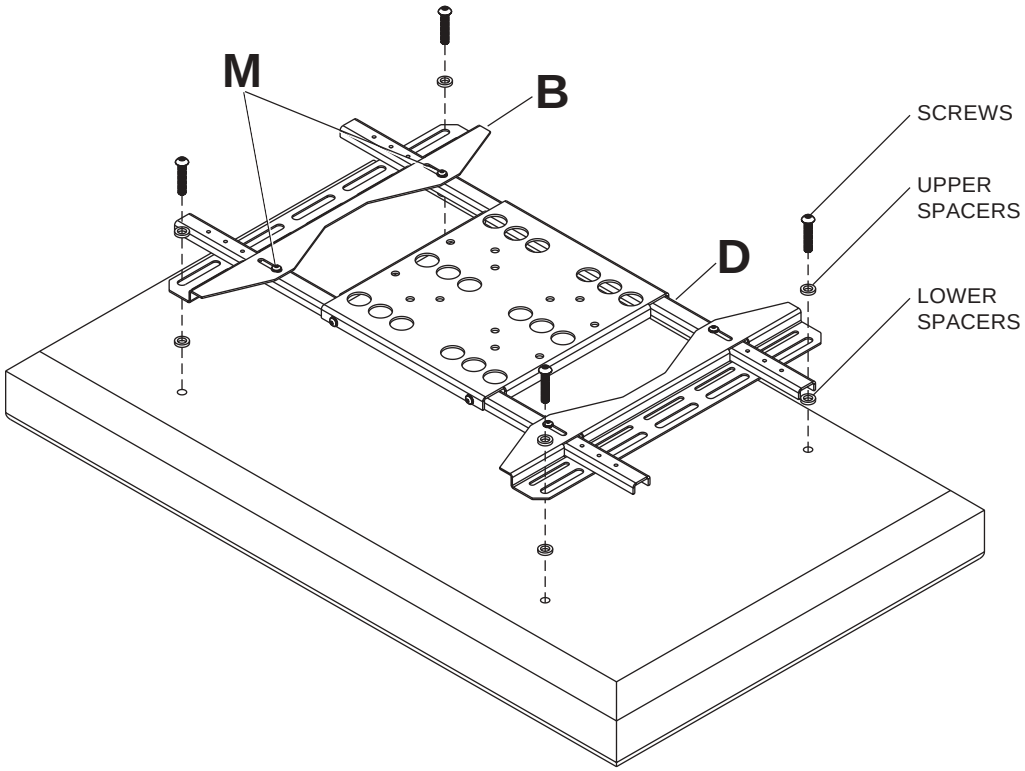


Installing Adapter Bracket to Screen

8 Slide the vertical brackets (**B**) along the c-channels (**D**) of the adapter bracket until the slots on the back of the vertical brackets are aligned to the holes on the back of the screen. Fully tighten the four 10-32 x 3/8" screws (**M**) which hold the vertical brackets to the c-channels. Refer to the table on the last page of accompanying screen compatibility chart to determine the proper fasteners to use. Attach the assembled adapter bracket to the back of the screen using screws, upper and lower spacers as pictured. Verify that all holes are properly aligned, then use a phillips screwdriver to tighten the screws.

Note: See figure 5 below for slot sizes.

Example: *For a Sony model KDL-42XBR950 42" screen, attach the plate to the screen using screws (**F** or **H**) and upper spacers (**O**) through the small slots on the vertical brackets. Lower spacers are not required for this configuration.*



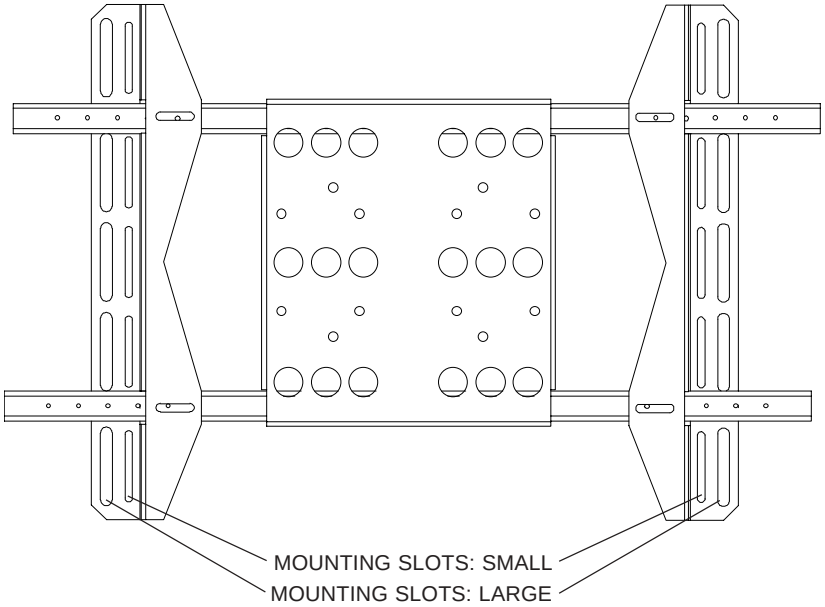


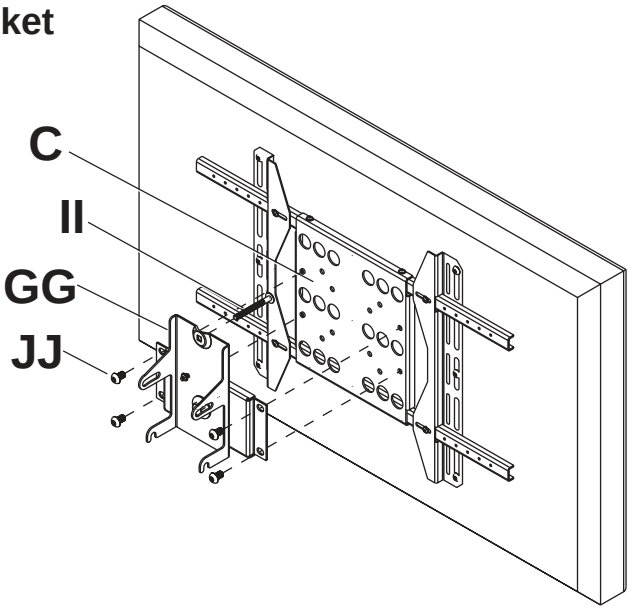
fig. 5
Mounting Slots

SMALL SLOTS ARE USED FOR M4 AND M5 SCREWS.

LARGE SLOTS ARE USED FOR M6 AND M8 SCREWS.

Installing Pitch Roll Assembly to Adapter Bracket

9 Insert and tape carriage bolt (**II**) into top hole of pitch roll assembly (**GG**). Attach pitch roll assembly to adapter plate (**C**) with four M10 socket screws (**JJ**). Tighten M10 socket screws with 6 mm allen wrench (**Y**).

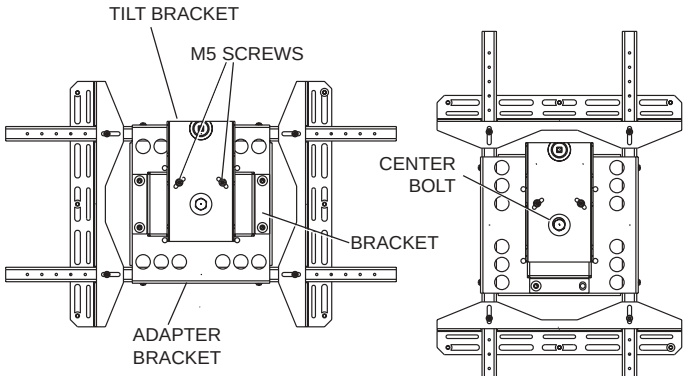


OPTIONAL:
Placing Screen in Vertical Position

DO NOT REMOVE M5 SCREWS. For vertical orientation, unscrew two M5 screws until screw is able to move freely in slot of tilt bracket as shown in figures 16A & 16B. Hold adapter bracket stationary and rotate tilt bracket 90° by hand or using a lever (example: wood 2" x 4"). Align M5 screws with threaded holes on bracket and tighten two M5 screws back into bracket.

CAUTION

- Do not overtighten screws. Overtightening may hinder roll option.



HORIZONTAL POSITION **VERTICAL POSITION**

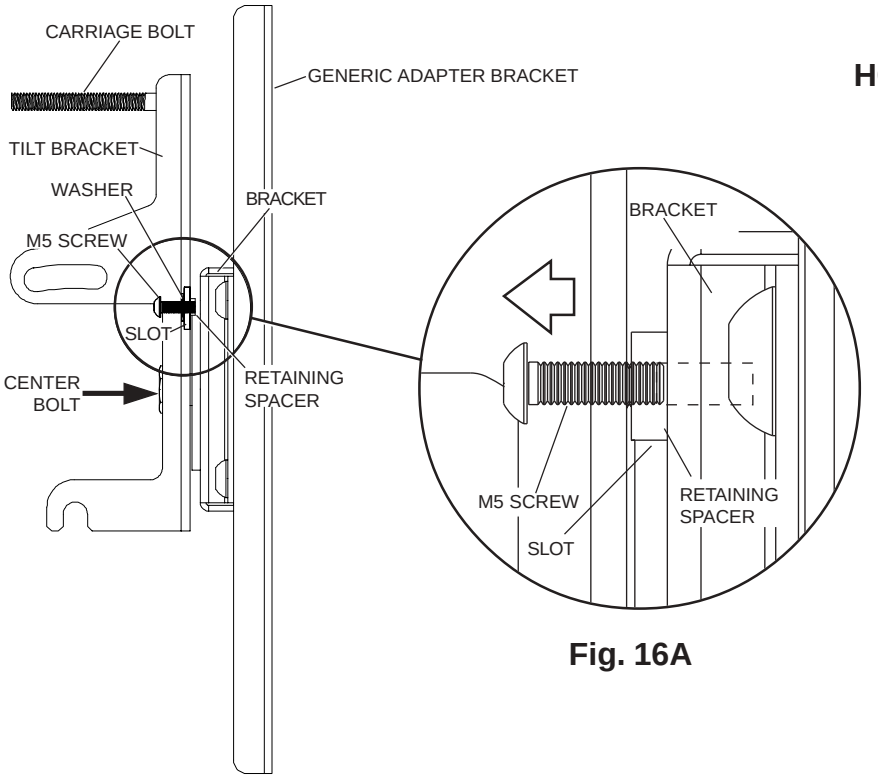


Fig. 16A

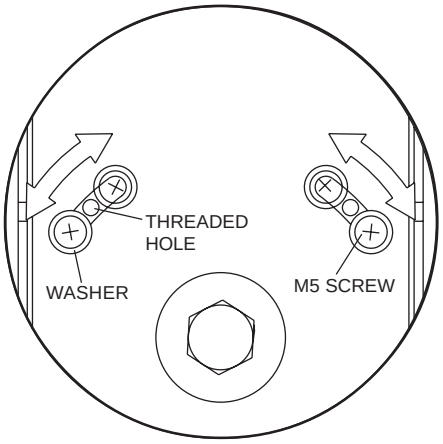


Fig. 16B

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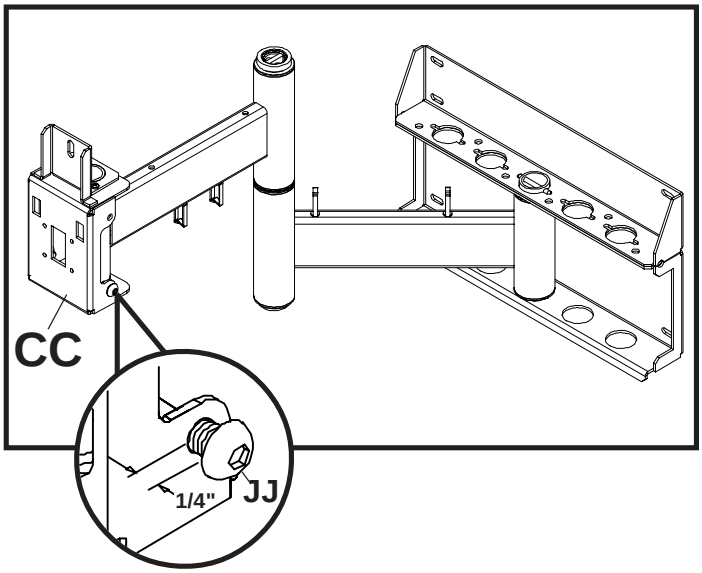
Installing Screen to Articulating Swivel Mount

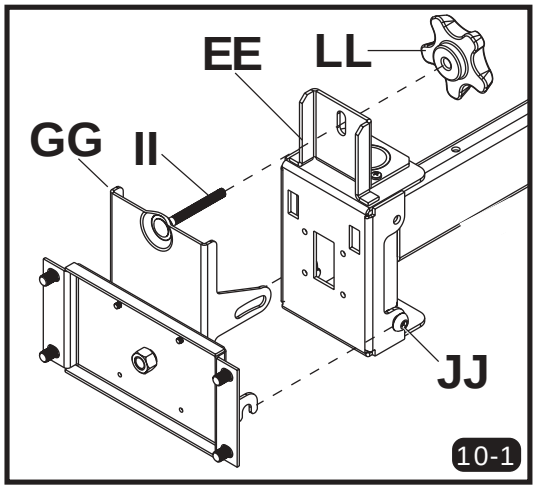
⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the plasma television.

10 Insert two M10 screws (**JJ**) into rotation box (**CC**) as shown. Leave approximately 1/4" of exposed thread.

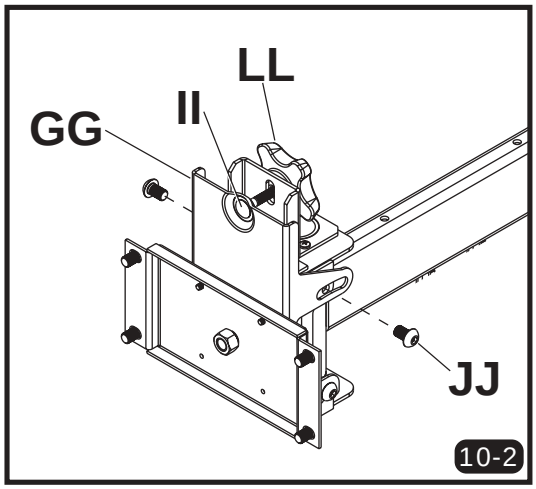


10-1 Hook pitch roll assembly (**GG**) onto M10 screws (**JJ**). Insert carriage bolt (**II**) into slot of tilt pivot retainer assembly (**EE**) as shown. Install tilt adjustment knob (**LL**).



10-2 Install remaining two M10 screws (**JJ**). HAND TIGHTEN all four M10 screws to allow for tilt adjustment. Remove tape from carriage bolt (**II**). For tilt adjustment, gently push back on the top of screen to relieve pressure on knob. Adjust tilt to desired position and tighten tilt adjustment knob (**LL**), then securely tighten all four M10 screws using 6 mm allen wrench (**Y**).

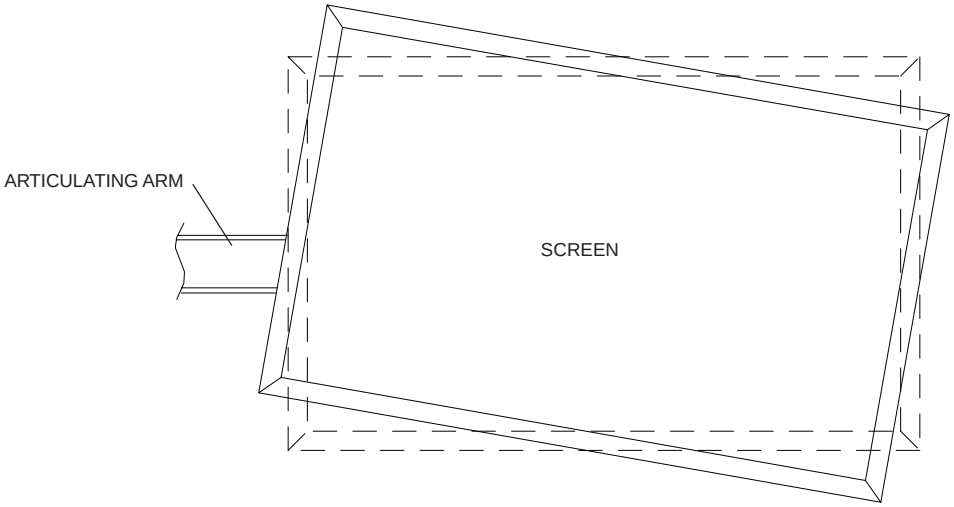
As a final precaution, check all fasteners and tighten securely.



ISSUED: 09-21-04 SHEET #: 201-9269-6 11-29-05

Final Adjustments to Screen

11 Depending on the specific size and weight of the screen, the articulating swing arm may be angled at different positions, causing the screen to appear to lean sideways at different articulating positions. The pitch roll assembly (**GG**) allows the screen to be manually adjusted to appear horizontal at all times. To adjust, gently rotate the screen by hand to the desired position.



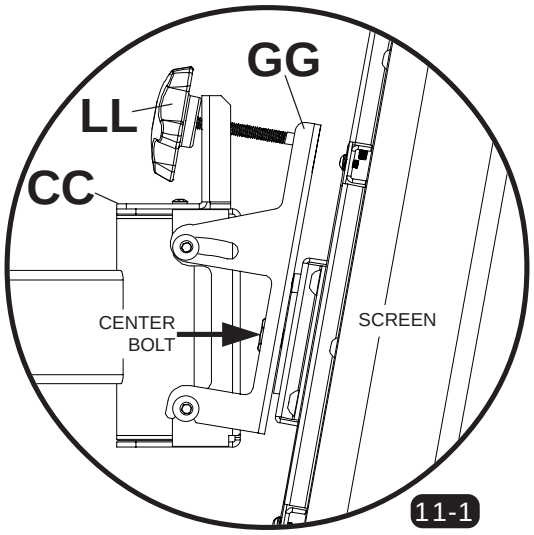
Note: Center bolt is factory torqued for optimal performance to adjust for range of screen sizes.

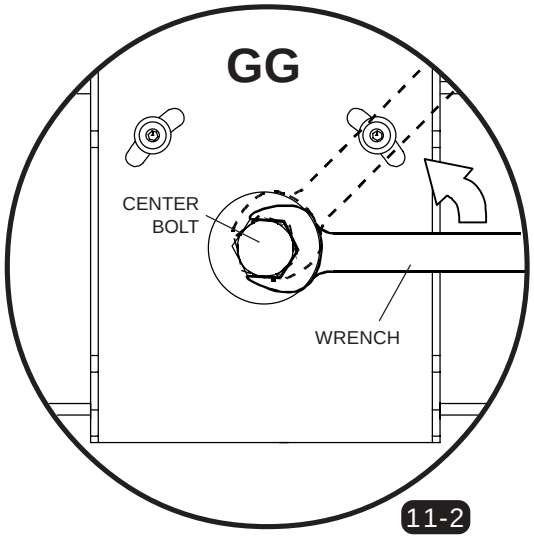
If it is too difficult to adjust roll of screen, torque may be adjusted by following the procedures below.

11-1 Adjust tilt adjustment knob (**LL**) to allow maximum tilt.

11-2 Insert 3/4" open-end wrench (not provided) into side of pitch roll assembly (**GG**) and rotate center bolt counterclockwise to loosen torque.

Note: Do not loosen or tighten more than 1/8 turn.





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